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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/673 105 FLOCKHART ET AL. Office Action Summary Examiner Art Unit NADJA CHONG CRUZ 3623 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 24 November 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-19 and 21-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-19 and 21-54 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/08)

Paper No(s)/Mail Date 21 November 2008.

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Status of Claims

- This is a Final office action in reply to the response filed on 24 November 2008.
- 2. Claims 1-2, 4-6, 16-19, 21-23, 28-31, 42-43, 49 and 51 have been amended.
- 3. Claim 20 has been canceled.
- 4. Claims 1-19 and 21-54 are currently pending and has been examined.
- 5. The rejections of claims 1-19 and 21-54 have been updated to reflect the amendments.

Response to Amendment

- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action.
- The objection of claim 43 in the previous office action is withdrawn, in response to Applicant's amendments.
- The rejection of claims 1-18 and 20 under 35 USC § 101 paragraph is withdrawn in light of Applicant's amendment.

Claim Objections

 Claims 29 is objected to because of the following informalities: Claim 29 status is identified as "Currently Amended" instead of "Original", the newly added limitation resources was original filed. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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11. Claims 4, 6, 16, 21-23, 28, 42 and 49 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. As per claim 4, recites first operational mode in which bidding is performed and not in a second operational mode in which bidding is not performed the first and second operational modes being temporally discrete from each other is not supported by the original disclosure. As per claim 6, recites in the absence of bidding is not supported by the original disclosure. As per claim 21, recites a method comprising; maintaining, by a processor, a computer readable medium, encoded with at least the following variables, a method to perform the limitations recited in claim 21 are not supported by the original disclosure. As per claim 16, recites wherein the members of the set of resources are not employees of the contact center, wherein the members of the set of resources are not subscribers to an enterprise network defined by the contact center, and wherein steps (b)-(d) are performed when a second set of resources is unable to service the contact as required by contact center policies, objectives, and/or goals, the second set of resources being employees of the contact center and subscribers of the enterprise network is not supported by the original disclosure and as per claims 28, 42 and 49 recites wherein plurality of resources are not employees of the contact center, wherein the plurality of workstations are not subscribers to an enterprise network defined by the contact center, and wherein steps (a)-(c) are performed when a second set of resources is unable to service the contact as required by contact center policies, objectives, and/or goals, the second set of resources being employees of the contact center and having workstations that are subscribers of the enterprise network is not supported by the original disclosure because as per claims 16, 28, 42 and 49 the set/plurality of resources are not employees of the contact center and the second set of plurality of resources are employees of the contact center, however in the disclosure the first set/plurality of resources are employees of the contact center and the second set of resources are not employees of the contact center (Specification ¶ 0023).

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12. The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

13. Claims 2, 4, 6 and 21-23 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 14. As per claim 2, recites wherein the at least one member of the set of resources is a plurality of members of the set of resources is vaque and indefinite, the limitations do not define the metes and bounds of the invention, because Examiner is not clear why the at least one member of the set of resources is a plurality of members of the set of resources when the set of resources comprising a plurality of members.
- 15. As per claim 4, the term "being temporally discrete" is a relative term which renders the claim indefinite. The term "being temporally discrete" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. For the purposes of this examination, being temporally discrete will be interpreted as when one operational mode is working the other operational mode is disconnected. Appropriate correction is required.
- As per claim 6, recites the absence of bidding. There is insufficient antecedent basis for this 16. limitation in the claim.
- 17. As per claim 21, recites maintaining, by a processor, a computer readable medium encoded with at least the following variables fails to particularly point out and distinctly claim the subject matter which applicant regards as the invention because how a processor is used to maintain a computer readable medium? Appropriate correction is required.
- 18. As per claim 23, the limitation wherein the at least one of a resource value and work item value comprises both the resource value and the work item value is vaque and indefinite, the limitations do not define the metes and bounds of the invention, because Examiner is not clear how can a resource value or work item value contains both the resource value and the work item value? For

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the purposes of this examination, the examiner will interpret resource value contains a resource value and, work item value contains a work item value, respectively. Appropriate correction is required.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 20. Claims 21-23 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Based on Supreme Court precedent and recent Federal Circuit decisions, 88 USPQ2d 1385 In re Bilski U.S. Court of Appeals Federal Circuit. A method claim must meet a specialized, limited meaning to qualify as a patent-eligible process claim. As clarified in Bilski, The test for a method claim is whether the claimed method is (1) tied to a particular machine or apparatus, or (2) transforms a particular article to a different state or thing. This is called the "machine or-transformation test" (see at least Diamond v. Diehr, 450 U.S. 175, 184 (1981); Parker v. Flook, 437 U.S. 584, 588 n.9 (1978); Gottschalk v. Benson, 409 U.S. 63, 70 (1972); Cochrane v. Deener, 94 U.S. 780, 787-88 (1876).
- 21. There are two corollaries to the machine-or-transformation test. First, a mere field-of-use limitation is generally insufficient to render an otherwise ineligible method claim patent eligible. This means the machine or transformation must impose meaningful limits on the method claim's scope to pass the test. Second, insignificant extra-solution activity will not transform an unpatentable principle into a patentable process. This means reciting a specific machine or a particular transformation of a specific article in an insignificant step, such a data gathering or outputting, is not sufficient to pass the test.

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22. Nominal recitations of structure in an otherwise ineligible method fail to make the method a statutory process. See Benson, 409 U.S. at 71-72. As Comiskey recognized, "the mere use of the machine to collect data necessary for application of the mental process may not make the claim patentable subject matter." Comiskey, 499 F.3d at 1380 (citing In re Grams, 888 F.2d 835, 839-40 (Fed. Cir.1989)). Incidental physical limitations, such as data gathering, field of use limitations, and post-solution activity are not enough to convert an abstract idea into a statutory process. In other words, nominal or token recitations of structure in a method claim do not convert an otherwise ineligible claim into an eligible one. Claims 22-23 inherit the same deficiencies as claim 21 and are therefore rejected for the same reasons as claim 21.

- 23. Incidental physical limitations, such as data gathering, field of use limitations, and post-solution activity are not enough to convert an abstract idea into a statutory process. In other words, nominal or token recitations of structure in a method claim do not convert an otherwise ineligible claim into an eligible one. Claims 22-23 inherit the same deficiencies as claim 21 and are therefore rejected for the same reasons as claim 21.
- 24. Claims 21-23 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. Claim 21 recites a data structure with at least the following variables: an identity of at least one work item; a plurality of bids received from a plurality of human agents to service the at least one work item; and for each received bid: an identity of a human agent placing the bid and at least one of a value of the human agent and a value of the work item which does not impart functionality to a computer or computing device, and is thus considered nonfunctional descriptive material. Such nonfunctional descriptive material, in the absence of a functional interrelationship with a computer, does not constitute a statutory process, machine, manufacture or composition of matter and is thus non-statutory per se.

Response to Arguments

 Applicant's arguments received on 24 November 2008 have been fully considered but are not persuasive.

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26. With regard to the 35 U.S.C. 103 (a) rejections, Applicant's arguments have been fully considered, but found unpersuasive. In the Remarks, Applicant merely reiterates the limitations of independent claims 1, 21, 24 and 45 and dependants claims 2-18 and 27 without specifically pointing out how the limitations are patentably distinct from Philonenko (US 2002/0131399 A1) in view of Spraetz further in view of EIX references and Philonenko in view of EIX references. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. Accordingly, the rejections are maintained and repeated below.

27. In particular Applicant argues that the prior art of record, specifically that Philonenko (US 2002/0131399 A1) in view of Spraetz further in view of EIX references and Philonenko in view of EIX references fails to teach the claimed invention (page 11, third paragraph). Examiner respectfully disagrees. Please see the updated rejection below as necessitated by the amendments.

Claim Rejections - 35 USC § 103

28. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

29. Claims 1-6, 8-14, 16-19, 24-32, 34-40 and 42-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Philonenko (US 2002/0131399 A1) in view of Spraetz, Out with the new, in with the old: A look at scheduling alternatives, Customer Inter@ction Solutions; Nov. 2001: 20,5 further in view of British Telecommunications, European Patent Application EP 1 246 097 A1, published on February 10, 2002, hereinafter "BT".

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Claim 1:

Philonenko as shown discloses a method allocating work items in a contact center, the method

comprising:

(a) providing a set of resources operable to service a work item, the set of

resources comprising a plurality of members (Figures 2 and 3, which they illustrates

a set of resources (e.g., Agents 1 to 4) operable to service a work item (e.g., a call

service), where a set of resources are Agents 1 to 4, a plurality of members);

(c)receiving, from at least one member of the set of resources, at least one bid to

service the work item (page 13, \P 0157: which teaches that "the 'offer of value' or a

bid might be from a communication-center host or entity" (e.g., at least one member

of the set of resources) "to a client" where "[t]he offer of value may be given to a

client for agreeing to wait longer in a queue instead of being advanced in the

queue" in order "to help load balance busy agents without losing clients due to long

waiting periods." Philonenko teaches that a bid have been received in order to

service the work item):

Philonenko does not expressly teach how bids are submitted and how the resource is selected.

However, Spraetz in an analogous art of allocating work items for the purpose of schedule

bidding (page 48, column 1, 2^{nd} ¶) as shown does:

(b) requesting, by a processor at least some of the resources in the set of resources

to submit a bid to service the work item (page 48, column 1, 2nd ¶ and page 50, 1st

column, last \P : which teaches that "agents bid" (e.g., submit a bid) "for work

assignments" (e.g., to service the work item) though "Imlodern scheduling bidding

systems" where processor are included in a system);

(d) and based at least in part on the at least one bid, selecting, by the processor, a

resource from among the set of resources to service the work item (page 50, 1st

column, 4th ¶: which teaches that "[o]nce bidding is closed, agent's selection can be

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evaluated against bidding rules and schedules automatically assigned". Spraetz teaches that a resource is selected based on bidding rules):

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to submit bid and select a resource based on that bit as taught by Spraetz, to improve Philonenko, thereby giving the predictable result of optimizing "resource use and meet service goals." In addition, it provides "closer matching of schedules to forecasted volumes reduces the amount of time supervisors must spend manually manipulating and adjusting schedules." (Spraetz, page 50, 1st column, 3st ft).

Claim 2:

Philonenko as shown discloses the following limitation:

- wherein the at least one member of the set of resources is a plurality of members of the set of resources (Figures 2 and 3, which they illustrates a set of resources (e.g., Agents 1 to 4) operable to service a work item (e.g., a call service), where at least one member (e.g., Agent 1) of the set of resources (e.g., Agents 1 to 4));
- wherein the work item is a contact from a customer (¶ 0033, which teaches "voice calls" (e.g., a contact from a customer) "arriving at a call center");
- wherein the work item is in a queue of multiple work items (Figure 3, which it
 illustrates work items (e.g., calls) in a queue of multiple work items (e.g., calls in));
- and wherein the selected resource is one of the plurality of members (Figure 3, which it illustrates the selected resource (e.g., Agent 3) which is one of the plurality of members));

Philonenko does not teach the following limitation. However, Spraetz in an analogous art of allocating work items for the purpose of schedule bidding (page 48, column 1, 2nd ¶) as shown does:

 wherein the set of resources comprises a plurality of resources external to the contact center (page 50, 2nd column, 3nd ¶: which teaches "contract labor" (e.g., a plurality of resources external to the contact center));

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a plurality of resources external to the contact center as taught by Spraetz, to improve Philonenko, thereby giving the predictable result of using "preference scheduling to fill in the gaps with newly hired agents, part-time agents or contract labor" in order to reduce "the effects of agent turnover and changes in contact volumes between bid cycles" (Spraetz, page 50, 2nd column, 3nd fb).

Claim 3:

Philonenko as shown discloses the following limitation:

 identifying a subset of resources from among the set of resources qualified to service the work item (page 3, ¶ 0037: which teaches that "to route" (e.g., identifying) "calls to agents at the call center based on the assigned priority, together with information about agent skills and status" (e.g., resources qualified to service the work item));

Philonenko does not expressly teach how bids are submitted and how the resource is selected.

However, Spraetz in an analogous art of allocating work items for the purpose of schedule bidding (page 48, column 1, 2nd ¶) as shown does:

and wherein, in the requesting step, a bid request is provided to each of the
resources in the subset of resources (page 48, column 1, 2nd ¶: which teaches that
"agents bid" (e.g., a bid request for each of the resources) "for work assignments"
(e.g., subset of resources));

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide bid request to each of the resources as taught by Spraetz, to improve

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Philonenko, thereby giving the predictable result of optimizing "resource use and meet service

goals." (Spraetz, page 50, 1st column, 3rd ¶).

Claim 4:

Philonenko teaches in Figure 9, a user interaction that allows the user to prioritize position in the

queue by offering a bid or offer of value. Philonenko teaches that in order to execute those steps,

it is in bidding operational mode. Philonenko does not expressly teach a second operational

modes being temporally discrete. However BT in an analogous art of work allocation for the

purpose of a second operational mode (Figure 4), as shown does:

wherein the requesting, receiving and selecting steps are performed only during a

first operational mode in which bidding is performed and not in a second

operational mode in which bidding is not performed, the first and second

operational modes being temporally discrete from each other. (Figure 4, which it

illustrates a first operational mode in which bidding is performed (e.g., "s9" through

"s15") and a second operational mode in which bidding is not performed (e.g., "s8"

and "s6") where both modes are being temporally discrete from each other);

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the

invention to provide operational modes to perform bidding and to not perform bidding as taught by

BT, to improve Philonenko, thereby giving the predictable result of receiving a "bid for the work

item in accordance with their respective operational priorities" (BT, ¶ 0005). In addition, it allows

the calculations "whether the allocation of the work will meet its local business priorities, for

example targets for total work time for its workgroup and therefore whether it should make a bid

at all (step s8)" (BT, ¶ 0014).

Claim 5:

Philonenko as shown discloses the following limitation:

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monitoring at least one queue of work items (page 3, ¶ 0039: which teaches that
"[t]he CTI application monitors switch 21 for incoming calls to a routing or calldistribution point" as shown in Figure 3 "Call Waiting Queue");

 the at least one queue of work items corresponding to a first set of resources for servicing work items in the at least one queue (Figure 3, which teaches a first set of resources available for servicing work items in the queue (e.g., Agent 3 or Agent 2));

• and applying the following rules to the results of the monitoring step: when a predetermined workload level exists in the at least one queue performing steps (b) through (d); (page 10, ¶ 0129 and page 3, ¶ 0039: which teaches that "the priority queue limit in switch 135 at center 117 is 10 calls" (e.g., a predetermined workload level). Further, Philonenko teaches that "[t]he status of telephones at agent stations is also monitored, so the application has access to real-time information as to which logged-in agents are busy on a call and which are not. The application operates to command switch 21 to distribute calls on a FIFO basis to logged-in available agents");

 and when a predetermined workload level does not exist in the at least one queue, not performing steps (b) through (d) (See Claim 1 and page 11, ¶ 0143: which teaches that "a caller may gain initiative IVR interaction for the purpose of bidding for advancement or further advancement in queue". It is implicitly disclosed that a predetermined workload does not exist, a bidding process is not necessary);

Claim 6:

Philonenko as shown discloses the following limitation:

 wherein the predetermined workload level exists when there is a likelihood that a service goal for at least one work item in the at least one queue will not be satisfied in the absence of bidding (page 10, ¶ 0129: which teaches that "the priority queue

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limit in switch 135 at center 117 is 10 calls" (e.g., a predetermined workload level) "before the agent at station 153 is deemed unavailable" (e.g., a gueue will not be

satisfied in the absence of bidding, therefore it will fail his/her service goal)):

As per claim 32, this claim encompasses substantially the same scope as claim 6 (e.g.,

"allocating work items, such as contacts", Specification, page 2, line 19), Accordingly, claim 32 is

rejected in substantially the same manner as claim 6, as described above.

As per claim 53, this claim encompasses substantially the same scope as claim 6 (e.g.,

"allocating work items, such as contacts", Specification, page 2, line 19), Accordingly, claim 53 is

rejected in substantially the same manner as claim 6, as described above.

Claim 8:

Philonenko as shown discloses the following limitation:

determining, from the at least one queue, a representation of a required queue for

at least one goal to be realized for each work item in the at least one gueue (Figure

3, which it illustrates a representation of a required queue for at least one goal (e.g.,

priority assignments) to be realized for each work item (e.g., call services));

As per claim 34, this claim encompasses substantially the same scope as claim 8 (e.g.,

"allocating work items, such as contacts", Specification, page 2, line 19). Accordingly, claim 34 is

rejected in substantially the same manner as claim 8, as described above.

Claim 9:

Philonenko as shown discloses the following limitation:

wherein the predetermined workload level exists when a queue position in the

required queue is less than a number of work items ahead of the queue position in

the required queue (page 4, ¶ 0051: which teaches that "a broad variety of rules

and conditions" (e.g., the required queue is less than a number of work items) "with

regards to agents such as incorporating various sub-states such as E-mail duties,

setting interrupt rules for particular agents, and so on." Philonenko teaches that

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based on predetermined rules and conditions, "an agent residing at agent station

33 may be reported busy because he is answering E-mails and cannot be

interrupted by a telephone call unless it is of priority 7 or above. In this case, if there

at agent station 33. He will accept the call and suspend his E-mail duty until he has

disposed of the call, and so on.")

Claim 10:

Philonenko as shown discloses the following limitation:

determining a time when the predetermined workload level will likely exist (page 10,

¶ 0129: which teaches that "the priority queue limit in switch 135 at center 117 is 10 calls" (e.g., a predetermined workload level will likely exist during that period of

time: 10 calls));

As per claim 36, this claim encompasses substantially the same scope as claim 10. Accordingly,

claim 36 is rejected in substantially the same manner as claim 10, as described above.

Claim 11:

Philonenko does not teach the following limitation. However, Spraetz in an analogous art of

allocating work items for the purpose of schedule bidding (page 48, column 1, 2^{nd} ¶) as shown

does:

· determining a number and identities of work items to be presented for bidding to the

set of resources (page 50, 2nd column, 3rd ¶: which Spraetz teaches that in order to

use schedule bidding "the effects of agent turnover and changes in contact

volumes" (e.g., number and identities of work items) are determined to be

presented for bidding to the resources);

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the

invention to submit bid and select a resource based on that bit as taucht by Spraetz, to improve

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Philonenko, thereby giving the predictable result of optimizing "resource use and meet service qoals," (Spraetz, page 50, 1st column, 3st ¶).

As per claim 37, this claim encompasses substantially the same scope as claim 11 (e.g., "allocating work items, such as contacts", Specification, page 2, line 19). Accordingly, claim 37 is rejected in substantially the same manner as claim 11, as described above.

Claim 12:

Philonenko as shown discloses the following limitation:

• comparing the received bids with a maximum acceptable bid (page 13, ¶ 0156: which teaches that "A client paying, say a \$10.00 commission to a stock broker for a single transaction would be advanced ahead of the client only willing to pay a \$5.00 commission and so on" Philonenko teaches that bids received are compared (e.g., \$10.00 vs. \$5.00) with a maximum acceptable bid (e.g., \$10.00 in commission) in order to reduce the amount of public queue waiting time);

As per claim 38, this claim encompasses substantially the same scope as claim 12. Accordingly, claim 38 is rejected in substantially the same manner as claim 12, as described above.

Claim 13:

Philonenko as shown discloses the following limitation:

determining, for each bidding resource, a composite value reflecting a plurality of a work item value, a resource value and a bid and comparing the determined composite values to select a resource to service the work item (page 2, ¶ 0025: which teaches that "(a) interacting with the author of each event" (e.g., a plurality of work item value) "to establish a value contribution promise or not," (e.g., a bid) "(b) upon receiving a promise of a value contribution, transacting the value contribution on behalf of the author; and (c) advancing the queue position" (e.g., a resource value) "of the message of the author according to the rules of transaction" (e.g.,

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comparing the determined composite values to select a resource to service the work item)):

As per claim 39, this claim encompasses substantially the same scope as claim 13 (e.g., "allocating work items, such as contacts", Specification, page 2, line 19). Accordingly, claim 39 is rejected in substantially the same manner as claim 13, as described above.

Claim 14

Philonenko does not teach the following limitation. However, Spraetz in an analogous art of allocating work items for the purpose of schedule bidding (page 48, column 1, 2nd ¶) as shown does:

• determining whether or not a workload level for the contact center requires the work item that is the subject of the received bids to be serviced by a resource in the set of resources (page 50, 2nd column, 3rd ¶ which teaches that "[f]or operations using schedule bidding, the effects of agent turnover and changes in contact volumes" (e.g., work items that is the subject of the received bids) "between bid cycles could be addressed quite effectively by using preference scheduling to fill in the gaps with newly hired agents, part-time agents or contract labor." Spraetz teaches that a workload level is determined in order to fill in the gaps for a work assignment by bidding it);

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to determine a workload level that requires the work items to receive bids as taught by Spraetz, to improve Philonenko, thereby giving the predictable result of optimizing "resource use and meet service goals." (Spraetz, page 50, 1° column, 3° ¶).

As per claim 40, this claim encompasses substantially the same scope as claim 14 (e.g., "allocating work items, such as contacts", Specification, page 2, line 19). Accordingly, claim 40 is rejected in substantially the same manner as claim 14, as described above.

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Claim 16:

Philonenko as shown discloses the following limitation

 wherein at least some of the resources are human agents (pages 4-5 ¶ 0054: which teaches that "[a]gent group 71 comprises agents 1-4" where agent 1 is in training.

Philonenko teaches that the agent group are human agents);

Philonenko does not expressly teach the following limitation. However BT in an analogous art of work allocation for the purpose of a providing different set of resources (Figure 3, Workgroup 1

and Workgroup 2), as shown does:

 wherein the members of the set of resources are not employees of the contact center, wherein the members of the set of resources are not subscribers to an enterprise network defined by the contact center, and wherein steps (b)-(d) are performed when a second set of resources is unable to service the contact as required by contact center policies, objectives, and/or goals, the second set of resources being employees of the contact center and subscribers of the enterprise network (¶ 0003, 0006, 0011 and Figure 3, which teaches that "a work allocation system for allocating work items between a plurality of workgroups" (e.g., different set of resources), "comprising a work source agent for providing a work item and a plurality of mediator agents, each associated with a respective workgroup, wherein each of the mediator agents is configured to request the work item from the work source agent in dependence on preference data for its respective workgroup.". Further, "Joince a work item is acquired, the mediator agent for a given workgroup can offer the work item to each of the workers in the workgroup". Figure 3 illustrates two workgroups, Workgroup 1 and Workgroup 2, where "[t]he OSS 2 is provided with. or generates, a definition of a work project to be carried out by one or more workgroups 20, 21. Each workgroup 20, 21 includes a plurality of workers 22-24; 25-27, each of whom has access to a workgroup terminal 4, 5. Each of the workgroup

terminals 4, 5 runs a software program referred to herein as a mediator agent 28,29, which is capable of communicating with the OSS 2 and each of a plurality of workers 22 - 27 in the workgroups 20, 21 via a graphical user interface (qui)."):

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a plurality of workgroups as taught by BT, to improve Philonenko, thereby giving the predictable result of receiving a "bid for the work item in accordance with their respective operational priorities" (BT, ¶ 0005).

BT does not expressly teach that workgroup 1 are not employees of the contact center. neither workgroup 2 are employees of the contact center. BT teaches that "a work allocation system for allocating work items between a plurality of workgroups" (e.g., different set of resources), "comprising a work source agent for providing a work item and a plurality of mediator agents, each associated with a respective workgroup" (BT, ¶ 0003). However, it would have been obvious to one of ordinary skill in the art at the time of the invention, to modify BT by assigning a set of resources that are not employees of the contact center to workgroup 1 and a set of resources that are employees of the contact center to workgroup 2 because "[e]ach workgroup 20, 21 includes a plurality of workers 22-24; 25-27, each of whom has access to a workgroup terminal 4, 5. Each of the workgroup terminals 4, 5 runs a software program referred to herein as a mediator agent 28, 29, which is capable of communicating with the OSS 2 and each of a plurality of workers 22 - 27 in the workgroups 20, 21 via a graphical user interface (qui)." (BT, ¶ 0011) In addition, it is old and well know in work allocation art to outsource resources in order to lower cost and to minimize unanswered and unattended inhound calls

As per claim 42, this claim encompasses substantially the same scope as claim 16. Accordingly, claim 42 is rejected in substantially the same manner as claim 16, as described above.

Claim 17:

Philonenko as shown discloses the following limitation

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wherein the bid is at least one of a monetary service fee, a service time, an

opportunity cost to the contact center for servicing the work item, and an overhead cost to the contact center for servicing the work item (page 13, ¶ 0156: which teaches

that "clients may actually promise cash increments of the like" (e.g., a monetary

service fee) "to shave certain amounts of time of a public queue waiting time".);

As per claim 43, this claim encompasses substantially the same scope as claim 17. Accordingly,

claim 43 is rejected in substantially the same manner as claim 17, as described above.

Claim 18:

Philonenko does not teach the following limitation. However, Spraetz in an analogous art of

allocating work items for the purpose of schedule bidding (page 48, column 1, $2^{\rm nd}$ \P) as shown

does:

· wherein a plurality of work items are put out for bid and further comprising:

dynamically varying a bidding time for each of the plurality of work items (page 50.

 2^{nd} column, 3^{rd} \P which teaches that "the effects of agent turnover and changes in

contact volumes" (e.g., a plurality of work items) are put out for bid (e.g., schedule bidding) during a "bid cycle" (e.g., dynamically varying a bidding time) "to fill in the

gaps");

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the

invention to bit a plurality of work items by dynamically varying a bidding time (e.g., bid cycle) as

taught by Spraetz, to improve Philonenko, thereby giving the predictable result of optimizing

"resource use and meet service goals." (Spraetz, page 50, 1st column, 3rd ¶).

As per claim 44, this claim encompasses substantially the same scope as claim 18 (e.g.,

"allocating work items, such as contacts", Specification, page 2, line 19). Accordingly, claim 44 is

rejected in substantially the same manner as claim 18, as described above.

Claim 19:

Philonenko as shown discloses the following limitation:

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a computer readable medium containing instructions that, when executed, perform
the steps of Claim 1 (page 3. ¶ 0034; which teaches that "statistical and skill based

routines may be stored" (e.g., a computer readable medium) "and executed via

processor");

Claim 24:

Philonenko as shown discloses a contact center for servicing a plurality of customer with a

plurality of contacts, the contact center comprising:

a plurality of workstations corresponding to a plurality of resources (page 6, ¶ 0075

and Figure 5, which it illustrates "a plurality of agent-manned telephones 148, 150,

152, and 154." (e.g., telephones of a plurality or resources) "Telephones 148-154 are

implemented one each at separate agent workstations 147, 149, 151 and 153

respectively" (e.g., a plurality of workstations));

a (central) server in communication with the plurality of workstations, comprising
 (Figure 5. "T-Server" which is in communication with the plurality of workstations):

at least one gueue of contacts (Figure 4, which it illustrates "Calls Waiting Queue")):

• (b) receive at least one bid to service the at least one contact (page 13, ¶ 0157:

which teaches that "the 'offer of value' or a bid might be from a communication-center

host or entity to a client" where "[t]he offer of value may be given to a client for

agreeing to wait longer in a queue instead of being advanced in the queue" in order

"to help load balance busy agents without losing clients due to long waiting periods."

Philonenko teaches that a bid have been received in order to service one contact):

Philonenko does not expressly teach how bids are submitted and how the resource is selected.

However, Spraetz in an analogous art of allocating work items for the purpose of schedule

bidding (page 48, column 1, 2nd ¶) as shown does:

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 and a bid item selecting agent operable to (a) request at least some of the plurality of resources to submit a bid to service at least one contact (page 48, column 1, 2nd ¶: which teaches a schedule bidding (e.g., a bid item selecting agent operable) where

"agents bid" (e.g., submit a bid) "for work assignments" (e.g., to service a contact));

· and (c) select a resource from among the plurality of resources to service the at

least one contact. (page 50, 1st column, 4th \P : which teaches that *[o]nce bidding is

closed, agent's selection can be evaluated against bidding rules and schedules automatically assigned". Spraetz teaches that a resource is selected based on

bidding rules):

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the

invention to submit bid and select a resource based on that bit as taught by Spraetz, to improve

Philonenko, thereby giving the predictable result of optimizing "resource use and meet service

goals." In addition, it provides "closer matching of schedules to forecasted volumes reduces the

amount of time supervisors must spend manually manipulating and adjusting schedules."

(Spraetz, page 50, 1st column, 3rd ¶).

As per ${f claim}$ 45, this claim encompasses substantially the same scope as claim 24. Accordingly,

claim 45 is rejected in substantially the same manner as claim 24, as described above.

Claim 25 and 46:

Philonenko as shown discloses the following limitation:

a first set of workstations corresponding to a first set of resources, wherein the

workstations in the first set are internal to the contact center and wherein the

workstations in the first workstation set are different from the workstations in the

second workstation set (page 6, \P 0075 and Figure 5, which it illustrates "a plurality of

agent-manned telephones 148, 150, 152, and 154." "Telephones 148-154 are

implemented one each at separate agent workstations 147, 149, 151 and 153

respectively" (e.g., a plurality of workstations). Philonenko teaches a plurality of workstations internal to the contact center);

Philonenko does not expressly teach that it has workstations external to the contact center (e.g., workstations from a contractor). However, Spraetz in an analogous art of allocating work items for the purpose of schedule bidding (page 48, column 1, 2nd ¶) as shown does:

• wherein the plurality of workstations are external to the contact center and define a second set of workstations and (wherein) the plurality of resources define a second set of resources and further comprising (page 50, 2nd column, 3nd ¶: which teaches "contract labor" (e.g., a plurality of resources external to the contact center, second set of resources) where is well known in the art that each contact center includes a plurality of workstations);

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include a plurality of resources external to the contact center as taught by Spraetz, to improve Philonenko, thereby giving the predictable result of using "preference scheduling to fill in the gaps with newly hired agents, part-time agents or contract labor" in order to reduce "the effects of agent turnover and changes in contact volumes between bid cycles" (Spraetz, page 50, 2nd column, 3rd ¶).

Claims 26 and 47:

Philonenko as shown discloses the following limitation:

further comprising at least one second queue for holding contacts to be serviced by
the first workstation set, wherein the contacts in the at least one queue of contacts
are selected from the at least one second queue (page 11, ¶ 0141 and Figure 8,
which it illustrates a second queue (e.g., P1) for holding contacts (e.g., "802 Holding
Point) to be serviced by the first workstation set (e.g., Figure 5) and Figure 4 which it
illustrates that queue of contacts are selected from the at least one second queue
(e.g., Agent 2: back to queue));

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Claim 27:

Philonenko as shown discloses the following limitation:

wherein the central server comprises a workload monitoring agent operable to

monitor the at least one gueue of contacts (page 3, ¶ 0039; which teaches that is old

and well known in the art (e.g., Figure 1) that "[t]he CTI application monitors switch

21 for incoming calls to a routing or call-distribution point" where "[t]he status of

telephone agent stations" (e.g., queue of contacts) " is also monitored");

Philonenko does not expressly teach bidding process duration. However, Spraetz in an

analogous art of allocating work items for the purpose of schedule bidding (page 48, column 1,

2nd ¶) as shown does:

· and determine, for each contact, at least one of a bid start time, a bidding process

duration, and a bid completion time (page 50, $2^{\rm nd}$ column, $3^{\rm rd}$ \P which teaches that

using scheduling bidding for each contact "the effects of agent turnover and changes

in contact volumes between bid cycles" (e.g., a bidding process duration, which

includes bid start time and completion time) "could be addressed quite effectively);

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the

invention to submit bid and select a resource based on that bit as taught by Spraetz, to improve

Philonenko, thereby giving the predictable result of optimizing "resource use and meet service

goals." In addition, it provides "closer matching of schedules to forecasted volumes reduces the

amount of time supervisors must spend manually manipulating and adjusting schedules."

(Spraetz, page 50, 1st column, 3rd ¶).

As per ${\bf claim~48},$ this claim encompasses substantially the same scope as claim 27. Accordingly,

claim 48 is rejected in substantially the same manner as claim 27, as described above.

Claims 28 and 49:

Philonenko as shown discloses the following limitation:

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 wherein the contacts in the at least one queue comprise one or more of realtime and non-real time contacts (Figure 3, which it illustrates "Agent Status (Real-Time request and priority assignment)");

Philonenko does not expressly teach the following limitation. However BT in an analogous art of work allocation for the purpose of a providing different set of resources (Figure 3, Workgroup 1 and Workgroup 2), as shown does:

· wherein plurality of resources are not employees of the contact center, wherein the plurality of workstations are not subscribers to an enterprise network defined by the contact center, and wherein steps (a)-(c) are performed when a second set of resources is unable to service the contact as required by contact center policies, objectives, and/or goals, the second set of resources being employees of the contact center and having workstations that are subscribers of the enterprise network (¶ 0003, 0006, 0011 and Figure 3, which teaches that "a work allocation system for allocating work items between a plurality of workgroups" (e.g., different set of resources), "comprising a work source agent for providing a work item and a plurality of mediator agents, each associated with a respective workgroup, wherein each of the mediator agents is configured to request the work item from the work source agent in dependence on preference data for its respective workgroup,". Further, "folince a work item is acquired, the mediator agent for a given workgroup can offer the work item to each of the workers in the workgroup". Figure 3 illustrates two workgroups, Workgroup 1 and Workgroup 2, where "[t]he OSS 2 is provided with, or generates, a definition of a work project to be carried out by one or more workgroups 20, 21. Each workgroup 20, 21 includes a plurality of workers 22-24; 25-27, each of whom has access to a workgroup terminal 4, 5. Each of the workgroup terminals 4, 5 runs a software program referred to herein as a mediator agent 28,29, which is

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capable of communicating with the OSS 2 and each of a plurality of workers 22 - 27 in the workgroups 20, 21 via a graphical user interface (gui).");

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide a plurality of workgroups as taught by BT, to improve Philonenko, thereby giving the predictable result of receiving a "bid for the work item in accordance with their respective operational priorities" (BT. ¶ 0005).

BT does not expressly teach that workgroup 1 are not employees of the contact center, neither workgroup 2 are employees of the contact center. BT teaches that "a work allocation system for allocating work items between a plurality of workgroups" (e.g., different set of resources), "comprising a work source agent for providing a work item and a plurality of mediator agents, each associated with a respective workgroup" (BT, ¶ 0003). However, it would have been obvious to one of ordinary skill in the art at the time of the invention, to modify BT by assigning a set of resources that are not employees of the contact center to workgroup 1 and a set of resources that are employees of the contact center to workgroup 2 because "[e]ach workgroup 20, 21 includes a plurality of workers 22-24; 25-27, each of whom has access to a workgroup terminal 4, 5. Each of the workgroup terminals 4, 5 runs a software program referred to herein as a mediator agent 28, 29, which is capable of communicating with the OSS 2 and each of a plurality of workers 22 - 27 in the workgroups 20, 21 via a graphical user interface (gui)." (BT, ¶ 0011) In addition, it is old and well know in work allocation art to outsource resources in order to lower cost and to minimize unanswered and unattended inbound calls.

Claim 29:

Philonenko as shown discloses the following limitation:

 wherein the selecting agent is further operable to identify a set of resources from among the plurality of resources qualified to service the contact (page 3, ¶ 0037:
 which teaches that "to route" (e.g., identifying) "calls to agents at the call center based on the assigned priority, together with information about agent skills and status" (e.g., resources qualified to service the contact)):

Philonenko does not expressly teach how bids are submitted and how the resource is selected.

However, Spraetz in an analogous art of allocating work items for the purpose of schedule

bidding (page 48, column 1, 2nd ¶) as shown does:

and provide a bid request to each of the resources in the set of resources (page 48, column 1, 2nd ¶: which teaches that "agents bid" (e.g., a bid request for each of the

resources) "for work assignments" (e.g., subset of resources));

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention

to provide bid request to each of the resources as taught by Spraetz, to improve Philonenko, thereby giving the predictable result of optimizing "resource use and meet service goals."

thereby giving the predictable result of optimizing resource use and meet service goals.

(Spraetz, page 50, 1st column, 3rd ¶).

As per claim 50, this claim encompasses substantially the same scope as claim 29. Accordingly,

claim 50 is rejected in substantially the same manner as claim 29, as described above.

Claim 30:

Philonenko teaches in Figure 9, a user interaction that allows the user to prioritize position in the

queue by offering a bid or offer of value. Philonenko teaches that in order to execute those steps,

it is in bidding operational mode. Philonenko does not expressly teach a second operational

modes being temporally discrete. However BT in an analogous art of work allocation for the

purpose of a second operational mode (Figure 4), as shown does:

wherein the selecting agent requests, receives and selects bids when a bidding

operational mode is in effect but not when a bidding operational mode is not in effect,

wherein in the bidding operational mode bids are accepted (Figure 4, which it

illustrates a bidding operational mode in effect (e.g., "s9" through "s15") wherein bids are accepted and when a bidding operational mode is not in effect (e.g., "s8" and

"s6"));

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As per claim $\bf 51$, this claim encompasses substantially the same scope as claim $\bf 30$. Accordingly,

claim 51 is rejected in substantially the same manner as claim 30, as described above.

Claim 31:

Philonenko as shown discloses the following limitation:

· wherein the selecting agent is operable, when a predetermined workload level exists

in the at least one queue (page 10, \P 0129: which teaches that "the priority queue

limit in switch 135 at center 117 is 10 calls" (e.g., a predetermined workload level));

to perform functions (a) through (c) and, when a predetermined workload level does

not exist in the at least one queue, not to perform functions (a) through (c) (See

Claim 24 and page 11, \P 0143: which teaches that "a caller may gain initiative IVR

interaction for the purpose of bidding for advancement or further advancement in

queue". It is implicitly disclosed that a predetermined workload does not exist, a

bidding process is not necessary):

As per claim 52, this claim encompasses substantially the same scope as claim 31. Accordingly, claim 52 is rejected in substantially the same manner as claim 31, as described above.

Claim 35:

Philonenko as shown discloses the following limitation:

wherein the predetermined workload level exists when a queue position in the

required queue is less than a number of enqueued contacts ahead of the queue

position in the required queue (page 4, ¶ 0051: which teaches that "a broad variety of

rules and conditions" (e.g., the required queue is less than a number of enqueued

contacts) "with regards to agents such as incorporating various sub-states such as Email duties, setting interrupt rules for particular agents, and so on." Philonenko

teaches that based on predetermined rules and conditions, "an agent residing at

agent station 33 may be reported busy because he is answering E-mails and cannot

be interrupted by a telephone call unless it is of priority 7 or above. In this case, if

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there are no other agents available to take the priority 7 call, it will be routed to the agent at agent station 33. He will accept the call and suspend his E-mail duty until he has disposed of the call, and so on.")

- 30. Claims 7, 15, 33, 41 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Philonenko (US 2002/0131399 A1) in view of Spraetz, Out with the new, in with the old: A look at scheduling alternatives, Customer Inter@ction Solutions; Nov. 2001: 20,5 as applied to claims 1-6, 8-14, 16-19, 24-32, 34-40 and 42-53 above further in view of EIX (1998-2002) (http://web.archive.org/web/20020803000353/http://www.iex.com), hereinafter "EIX" aspects of are discussed in the following references:
 - TotalView™ The Workforce Management Solution, TotalView Product Literature: The Perfect Fit (1998-2002) hereinafter Reference A.
 - TotalView™ The Workforce Management Solution, TotalView Product Literature:
 TotalView's Agent Webstation (1998-2002) hereinafter Reference B.

Claim 7:

The combination of Philonenko and Spraetz does not expressly teach the following limitation.

However, EIX in an analogous art of allocating work items for the purpose of determining a time interval (Reference A, page 2. Schedule Assignment) as shown does:

determining a time interval for performance of steps (b) through (d) (Reference A, page 2, Intraday Management – A detailed look at performance: which teaches "[m]ultiple viewing options show you both Performance Analysis and Schedule Management for realtime control of call center efficiency");

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to determine a time interval for performance as taught by Spraetz, to improve Philonenko, thereby giving the predictable result of "constantly monitors workload and staff" where "workload can be transferred to sites with available staff". (Reference A, page 2, Intraday Management – A detailed look at performance).

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As per claim 33, this claim encompasses substantially the same scope as claim 7. Accordingly, claim 33 is rejected in substantially the same manner as claim 7, as described above.

As per claim 54, this claim encompasses substantially the same scope as claim 7. Accordingly, claim 54 is rejected in substantially the same manner as claim 7, as described above.

Claim 15:

The combination of Philonenko and Spraetz teaches a bidding process for work assignments (e.g., work items). Furthermore, Spraetz teaches the following limitation:

and receiving additional bids after the displaying step (page 50, 2nd column, 3rd ¶
which teaches that "[flor operations using schedule bidding, the effects of agent
turnover and changes in contact volumes between bid cycles". Spraetz teaches that
during a bid cycles additional bids are received);

Philonenko teaches that "[s]tations 147-153 are equipped with agent-operated personal computer/video display units" (page 6, ¶ 0075). The combination of Philonenko and Spraetz does not expressly teach how bids are displayed to the agents. However, EIX in an analogous art of allocating work items for the purpose of displaying information (Reference B, Figures) as shown does:

displaying the selected bid and/or information associated with the selected bid to at least some resources in the set of resources (Reference B, Figures, which they display information to agents and page 2, StatsViewer which teaches that "[w]ith StatsViewer, data is available by Skill (S) or Queue (Q) for the agent, supervisory group and management unit");

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the combination of Philonenko and Spraetz (System and Method) by displaying information associated with the selected bid (e.g., queue information) as taught by Reference B because it "gives contact center agents immediate access to information and empowers them to improve their own performance". (Reference B, page 1, last ¶).

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As per claim 41, this claim encompasses substantially the same scope as claim 15. Accordingly, claim 41 is rejected in substantially the same manner as claim 15, as described above.

 Claims 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Philonenko (US 2002/0131399 A1) in view of British Telecommunications. European Patent Application EP 1 246

097 A1, published on February 10, 2002, hereinafter "BT".

Claim 21:

Philonenko as shown discloses the following limitation:

 maintaining, by a processor, a computer readable medium encoded with at least the following variables (Figure 5 and ¶ 0075,which teaches that "[s]tations 147-153 are equipped with agent-operated personal computer/video display units (PC/VDU's) that are connected to each other, and to a customer information server (CIS) 143 by a local area network (LAN) 141");

 an identity of at least one work item (Figure 4, which it illustrates Agent 1-4 and calls waiting queue" (e.g., one work item identified: calls 1 to 7));

- and at least one of a value of the human agent and a value of the work item (Figure
 4, which it illustrates a value of the resource (e.g., Agent 1: Busy) and a value of the
 work item (e.g., call 1: priority 7));
- and for each received bid: an identity of a human agent placing the bid (page 13, ¶
 0157: which teaches that "the 'offer of value' or a bid might be from a
 communication-center host" (e.g., an identity of a resource placing the bid) "or entity
 to a client");

Philonenko does not expressly teach the following limitations. However BT in an analogous art of work allocation for the purpose of a receiving a bid from a plurality of human agents (Figures 4 and 5) as show does:

 a plurality of bids received from a plurality of human agents to service the at least one work item (Figures 4 and 5, which Figure 4 illustrates that a plurality of bids are

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received (e.g., "s10") from a plurality of human agents (e.g., "s5") to service the at

least one work item (e.g., "s1, s2"). Figure 5 illustrates a plurality of human agents);

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the

invention to receive a plurality of bids from a plurality of human agents to service the at least one

work item as taught by BT, to improve Philonenko, thereby giving the predictable result of

receiving a "bid for the work item in accordance with their respective operational priorities" (BT, ¶ 0005).

Claim 22:

Philonenko as shown discloses the following limitation:

wherein the work item is a customer contact with a contact center (¶ 0033, which

teaches "voice calls" (e.g., a contact from a customer) "arriving at a call center"

(e.g., contact center));

and further comprising: a composite value based on the at least one bid and the at

least one of a resource value and work item value, (page 2, ¶ 0025; which teaches

that "(a) interacting with the author of each event" (e.g., a plurality of work item

value) "to establish a value contribution promise or not;" (e.g., a bid) "(b) upon

receiving a promise of a value contribution, transacting the value contribution on

behalf of the author; and (c) advancing the gueue position" (e.g., a resource value)

"of the message of the author according to the rules of transaction" (e.g., comparing

the determined composite values to select a resource to service the work item));

· the resource value being associated with a respective human agent and the work

item value being associated with the respective work item (Figure 4, which it illustrates a value of the resource (e.g., Agent 1; Busy) and a value of the work item

(e.g., call 1: priority 7));

Claim 23:

Philonenko as shown discloses the following limitation:

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wherein the at least one of a resource value and work item value comprises both
the resource value and the work item value (Figure 3, with it illustrates a resource
value (e.g., Agent 1 is in training, Agent 2 is available) and work item value (e.g.,

service call 1 with priority 10, call 2, with priority 2);

and wherein the composite value is based on the at least one bid, the resource

value, and the work item value (page 2, ¶ 0025; which teaches that "(a) interacting

with the author of each event" (e.g., a plurality of work item value) "to establish a

value contribution promise or not;" (e.g., a bid) "(b) upon receiving a promise of a

value contribution, transacting the value contribution on behalf of the author; and (c)

advancing the queue position" (e.g., a resource value) "of the message of the

advancing the queue position (e.g., a resource value) of the message of the

author according to the rules of transaction" (e.g., comparing the determined

composite values to select a resource to service the work item));

Conclusion

32. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

• Evenson et al., Effective Call Center Management: Evidence from Financial

Services, The Wharton Financial Institutions Center, January 1999, which disclose

the importance of human resource management practices and technology in

creating high-performance call center environments.

• Judge et al., Agent-enhanced workflow, BT Technologies Journal, Vol. 16 No. 3,

1998, which disclose the agents collaborate to perform real-time exception

handling, and to co-ordinate the redistribution of work items to meet changing

circumstances.

Application/Control Number: 10/673.105

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 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry of a general nature or relating to the status of this application or concerning this communication or earlier communications from the Examiner should be directed to Nadja Chong whose telephone number is 570.270.3939. The Examiner can normally be reached on Monday-Friday, 9:30am-5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, BETH BOSWEL can be reached at 571.272.6737.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://portal.uspto.gov/external/portal/pair http://portal.uspto.gov/external/portal/pair http://pair-direct.uspto.gov http://pair-direct.uspto.gov http://pair-direct.uspto.gov http://pair-direct.uspto.gov http://pair-direct.uspto.gov http://pair-direct.uspto.gov http://pair-direct.uspto.gov http://pair-direct.uspto.gov http://pair-direct.uspto.gov http://pair-direct.uspto.gov</a

Any response to this action should be mailed to:

Commissioner of Patents

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Alexandria, VA 22313-1450

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